

Department 24Y — Mechanical Sciences

Class A — Model Airplanes

Premium — \$2.00, \$1.75, \$1.50, \$1.25

1. Airplane made to fly, NO kit, wingspan: 20" or less
2. Airplane made to fly, NO kit, wingspan: over 20"
3. Airplane made to fly, from kit, wingspan: 20" or less
4. Airplane made to fly, from kit, wingspan: over 20"
5. Poster on basic parts of airplane

Class B — Model Rocketry

Premium — \$2.00, \$1.75, \$1.50, \$1.25

6. Single stage rocket
7. Multi-stage rocket
8. Exotic design rocket
9. Homemade design rocket
10. Poster on basic parts of a rocket
11. Scale model rocket

Class C — Radio Controlled Airplanes

Premium — \$2.00, \$1.75, \$1.50, \$1.25

12. Detailed poster or display showing safety procedures while flying a radio controlled airplane
13. Detailed poster or display showing the Academy of Model Aeronautics recommended radio controlled flying site specifications
14. Demonstration showing the safety procedures to be followed while flying a radio controlled airplane
15. Demonstration on the flight simulator or a flight pattern including a takeoff and landing

Class D — Bicycle

Premium — \$2.00, \$1.75, \$1.50, \$1.25

16. An educational display related to the bicycle

Class E — Legos

Premium — \$2.00, \$1.75, \$1.50, \$1.25

17. Poster about Lego project
18. Lego display mounted on a base (landscape, village, scene, etc.); maximum base size 24"x24"
19. Free standing Lego creation, no size limit
20. Lego display from a kit
21. Any other building material (not Legos) such as K'nex, Magnetix, Erector or Gears

Class F — Small Engines

Premium — \$1.75, \$1.50, \$1.25, \$1.00

22. Complete small engine, label all external parts
23. Complete small engine block with all internal parts separated, exposed and labeled (panel exhibit)
24. Poster showing correct steps in preparing a small engine for off-season storage
25. Small engine safety poster on: tiller, mini-bike, go-cart, lawn mower, etc.
26. Poster listing preventative maintenance measures recommended for 2-cycle small engine
27. Any other exhibit related to small engine

Class G — Scale Model

Premium — \$2.00, \$1.75, \$1.50, \$1.25

28. Model car
29. Model truck
30. Model boat or ship
31. Model airplane
32. Model spaceship, satellite
33. Model educational display: skeleton, etc.

Class H — Tractors

Premium — \$2.50, \$2.25, \$2.00, \$1.75

34. Poster or display showing safety procedure while using at least two types of farm equipment
35. Poster or display showing proper maintenance procedures of at least 2 types of farm equipment
36. Any other educational display

Class I — Off Highway Vehicle

Premium — \$2.00, \$1.75, \$1.50, \$1.25

37. Poster or display showing safety procedures to be observed while operating an off highway vehicle
38. Any other poster or display regarding off highway vehicle

Class J — Computers

All equipment necessary for displaying project or activity is exhibitor's responsibility

Premium — \$2.00, \$1.75, \$1.50, \$1.25

39. Lab exterior parts of computer
40. A multimedia presentation (maximum of 10 slides)
41. Educational poster or display
42. Create website and steps required in developing it
43. Create database and generate at least 3 reports of graphs from data
44. Basic "How to..." poster, pamphlet or PowerPoint presentation

Class K — Robotics (& Geospatial)

Premium — \$2.00, \$1.75, \$1.50, \$1.25

45. Booklet describing what was done or learned in project
46. Poster (14"x22") showing what was done or learned in project
47. Display showing what was done or learned in project
48. Any other exhibit to show what was done or learned in project
49. Robotics programming demonstration